

10/570,913

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAPplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	Caplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEMLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content

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from USPATOLD  
NEWS 29 JAN 02 STN pricing information for 2008 now available  
NEWS 30 JAN 16 CAS patent coverage enhanced to include exemplified  
prophetic substances  
NEWS 31 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new  
custom IPC display formats  
NEWS 32 JAN 28 MARPAT searching enhanced  
NEWS 33 JAN 28 USGENE timeliness enhanced  
NEWS 34 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment  
NEWS 35 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
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FILE 'HOME' ENTERED AT 17:09:07 ON 28 JAN 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:09:30 ON 28 JAN 2008

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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 27 JAN 2008 HIGHEST RN 1000849-38-6

DICTIONARY FILE UPDATES: 27 JAN 2008 HIGHEST RN 1000849-38-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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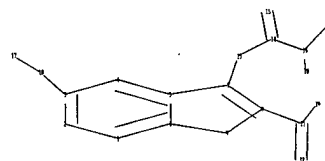
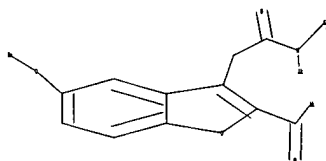
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10570913.str



chain nodes :

10 11 12 13 14 15 16 17 18 19 21

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ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

3-10 7-13 8-11 10-17 11-12 11-19 13-14 14-15 14-16 16-18 16-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

3-10 11-12 11-19 14-15 14-16 16-18 16-21

exact bonds :

5-7 6-9 7-8 7-13 8-9 8-11 10-17 13-14

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:Cb,Ak

G2:H,Cb,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

17:CLASS 18:CLASS 19:CLASS 21:CLASS

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 17:09:54 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 ful

FULL SEARCH INITIATED 17:10:02 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 41 TO ITERATE

100.0% PROCESSED 41 ITERATIONS

13 ANSWERS

SEARCH TIME: 00.00.01

L3 13 SEA SSS FUL L1

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=> file caplus s 13

'S' IS AN AMBIGUOUS FILE OR CLUSTER NAME

SAFETY	- Occupational Health and Safety Cluster
SESSION	- Current files with L-numbers Cluster
STRUCTURE	- Structure Searching Cluster
SUPPLIERS	- Product Directories and Suppliers Cluster
SCISEARCH	- ISI Science Citation Index from 1974 - present
SOFIS	- Social Science Research Information System 1997-2006
SOLIDSTATE	- Solid State and Superconductivity Abstracts from 1981
SOLIS	- German literature in social sciences 1945-present
SPECINFO	- Spectral Database Information System
STNGUIDE	- Descriptive information about STN databases
STNMAIL	- STN Electronic Mail Service
SYNTHLINE	- Synthline Drug Synthesis Database 1984-present

ENTER FILE OR CLUSTER NAME (IGNORE):end

=> file caplus

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FULL ESTIMATED COST	178.82	179.03

FILE 'CAPLUS' ENTERED AT 17:10:44 ON 28 JAN 2008

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FILE COVERS 1907 - 28 Jan 2008 VOL 148 ISS 5

FILE LAST UPDATED: 27 Jan 2008 (20080127/ED)

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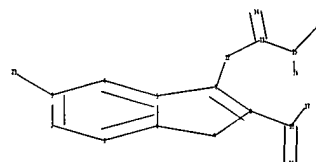
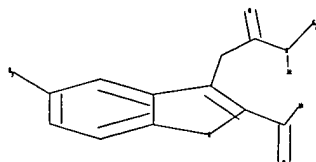
<http://www.cas.org/infopolicy.html>

=> s 13

L4 1 L3

=>

Uploading C:\Program Files\Stnexp\Queries\105709131.str



chain nodes :  
 10 11 12 13 14 15 16 17 19 23  
 ring nodes :  
 1 2 3 4 5 6 7 8 9  
 chain bonds :  
 3-23 7-12 8-10 10-11 10-17 12-13 13-14 13-15 15-16 15-19  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9  
 exact/norm bonds :  
 3-23 10-11 10-17 13-14 13-15 15-16 15-19  
 exact bonds :  
 5-7 6-9 7-8 7-12 8-9 8-10 12-13  
 normalized bonds :

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1-2 1-6 2-3 3-4 4-5 5-6  
isolated ring systems :  
containing 1 :

G1:Cb,Ak

G2:H,Cb,Ak

G3:H,F

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS  
17:CLASS 19:CLASS 23:CLASS

L5 STRUCTURE UPLOADED

=> s 15

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 17:13:36 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 4 TO 200  
PROJECTED ANSWERS: 1 TO 80

L6 1 SEA SSS SAM L5

L7 1 L6

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.48	182.37

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FILE 'CAPLUS' ENTERED AT 17:14:03 ON 28 JAN 2008  
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FILE COVERS 1907 - 28 Jan 2008 VOL 148 ISS 5  
FILE LAST UPDATED: 27 Jan 2008 (20080127/ED)

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=> s 17

L8 1 L6

=> dup rem 17 14

PROCESSING COMPLETED FOR L7

PROCESSING COMPLETED FOR L4

L9 1 DUP REM L7 L4 (1 DUPLICATE REMOVED)

=> d 19 ibib abs hitstr hitind

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2005:216615 CAPLUS

DOCUMENT NUMBER: 142:297979

TITLE: Preparation of benzofuran and benzothiophene derivatives for treating ocular hypertension

INVENTOR(S): Shen, Dong-ming; Doherty, James B.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2005020917	A2	20050310	WO 2004-US27915	20040827
WO 2005020917	A3	20050519		



W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004268012	A1	20050310	AU 2004-268012	20040827
CA 2537119	A1	20050310	CA 2004-2537119	20040827
EP 1664011	A2	20060607	EP 2004-782402	20040827

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

CN 1845914	A	20061011	CN 2004-80025038	20040827
JP 2007504228	T	20070301	JP 2006-525368	20040827
US 2006276504	A1	20061207	US 2006-570913	20060301

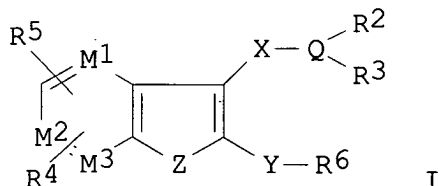
PRIORITY APPLN. INFO.:

WO 2004-US27915	W	20040827
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OTHER SOURCE(S):

CASREACT 142:297979; MARPAT 142:297979

GI



AB Title compds. I [M1-M3 = CH, N; Z = O, S; X = bond, alkylene, CO, alkylencarbonyl; Y = bond, CO, carbonylalkylene, alkylene, (un)substituted CHOH, O, S; Q = (un)substituted CH, N, O, where R2 is absent when Q = O; R2 = H, OH, (un)substituted alkyl, alkenyl, alkoxy, cycloalkyl, cycloalkenyl, heterocyclyl, aryl; R3 = H, (un)substituted alkyl, alkenyl, alkoxy, cycloalkyl, cycloalkenyl, heterocyclyl, aryl, NH2, SO2H, SO2NH2, CONH2, CHO, NO2, CN, halogen; NR2R3 = heterocyclic; R4, R5 = H, OH, (un)substituted alkoxy, alkylthio, acyl, alkenyl, cycloalkoxy, cycloalkyl, cycloalkylthio, SO3H, OP(O)(OH)2, CF3, (un)substituted NH2, NO2, CN, halogen; R6 = H, (un)substituted alkyl, aryl, heteroaryl, NH2] were prepared and are potent potassium channel blockers with IC50

0.5-10

μM for the treatment of glaucoma and other conditions which lead to elevated intraocular pressure. They also provide a neuroprotective effect.

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to the eye of mammalian species, particularly humans. Thus, 2'-hydroxy-5'-methoxyacetophenone was treated with BrCH<sub>2</sub>COCMe<sub>3</sub> to give 5-methoxy-3-methyl-2-pivaloylbenzofuran which was carbonylated and amidated to give I [M1-M3 = CH, Z = O, Y = CO, X = CH<sub>2</sub>CO, Q = N, R<sub>2</sub>,

R<sub>3</sub> =

Bu, R<sub>4</sub> = H, R<sub>5</sub> = 5-OMe, R<sub>6</sub> = CMe<sub>3</sub>].

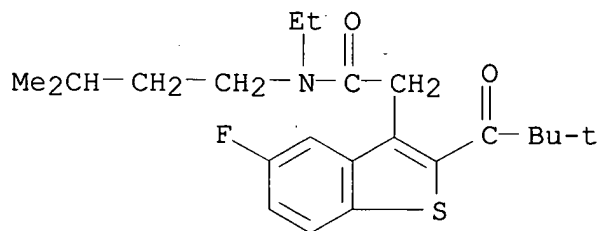
IT 847804-69-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzofuran and benzothiophene derivs. for treating ocular hypertension)

RN 847804-69-7 CAPLUS

CN Benzo[b]thiophene-3-acetamide, 2-(2,2-dimethyl-1-oxopropyl)-N-ethyl-5-fluoro-N-(3-methylbutyl)- (CA INDEX NAME)



IC ICM A61K

CC 27-9 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1

IT 847804-28-8P 847804-29-9P 847804-30-2P 847804-31-3P

847804-32-4P

847804-33-5P 847804-34-6P 847804-35-7P 847804-36-8P

847804-37-9P

847804-38-0P 847804-39-1P 847804-40-4P 847804-41-5P

847804-42-6P

847804-43-7P 847804-44-8P 847804-45-9P 847804-46-0P

847804-47-1P

847804-48-2P 847804-49-3P 847804-50-6P 847804-51-7P

847804-52-8P

847804-53-9P 847804-54-0P 847804-55-1P 847804-56-2P

847804-57-3P

847804-58-4P 847804-59-5P 847804-60-8P 847804-61-9P

847804-62-0P

847804-63-1P 847804-64-2P 847804-65-3P 847804-66-4P

847804-67-5P

847804-68-6P 847804-69-7P 847804-70-0P 847804-71-1P

847804-72-2P 847804-73-3P 847804-74-4P 847804-75-5P

847804-76-6P

847804-77-7P 847804-78-8P 847804-79-9P 847804-80-2P

847804-81-3P

847804-82-4P 847804-83-5P 847804-84-6P 847804-85-7P

847804-86-8P

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847804-87-9P 847804-88-0P 847804-89-1P 847804-90-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(preparation of benzofuran and benzothiophene derivs. for treating  
ocular hypertension)

=>

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
6.77	189.14

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.80	-0.80

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STN INTERNATIONAL LOGOFF AT 17:15:19 ON 28 JAN 2008